

**FEDERALLY ENFORCEABLE STATE
OPERATING PERMIT (FESOP) RENEWAL
OFFICE OF AIR QUALITY**

**Equilon Enterprises, LLC d/b/a Shell Oil Products US
10470 East Country Road 300 North
Clermont, Indiana 46234**

(herein known as the Permittee) is hereby authorized to operate subject to the conditions contained herein, the source described in Section A (Source Summary) of this permit.

This permit is issued in accordance with 326 IAC 2 and 40 CFR Part 70 Appendix A and contains the conditions and provisions specified in 326 IAC 2-8 as required by 42 U.S.C. 7401, et. seq. (Clean Air Act as amended by the 1990 Clean Air Act Amendments), 40 CFR Part 70.6, IC 13-15 and IC 13-17.

Operation Permit No.: F 063-14875-00004	
Issued by:Original signed by Paul Dubenetzky Paul Dubenetzky, Branch Chief Office of Air Quality	Issuance Date: July 2, 2002 Expiration Date: July 2, 2007

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Certification

Emergency Occurrence Report

Quarterly Report

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SECTION A

SOURCE SUMMARY

This permit is based on information requested by the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ). The information describing the source contained in Conditions A.1 through A.3 is descriptive information and does not constitute enforceable conditions. However, the Permittee should be aware that a physical change or a change in the method of operation that may render this descriptive information obsolete or inaccurate may trigger requirements for the Permittee to obtain additional permits or seek modification of this permit pursuant to 326 IAC 2, or change other applicable requirements presented in the permit application.

A.1 General Information [326 IAC 2-8-3(b)]

The Permittee owns and operates a stationary bulk gasoline terminal.

Authorized Individual:	T. J. Rizzoli
Source Address:	10470 East Country Road North, Clermont, Indiana 46234
Mailing Address:	Two Shell Plaza, P.O. Box 2648, Houston TX 77252-2099
General Source Phone Number:	317-291-2609
SIC Code:	5171
County Location:	Hendricks County
Source Location Status:	Attainment for all criteria pollutants
Source Status:	Federally Enforceable State Operating Permit (FESOP) Minor Source, under PSD; Minor Source, Section 112 of the Clean Air Act

A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-8-3(c)(3)]

This stationary source consists of the following emission units and pollution control devices:

- (a) One (1) truck loading rack constructed in 1963, known as #12, equipped with a flare vapor combustion unit (VCU), installed in 1993, and a vapor collection system, capacity: 99,000 gallons of petroleum products and/or denatured ethanol per hour.
- (b) Two (2) fixed roof cone, petroleum products (excluding gasoline) storage tanks, constructed in 1962, known as Tanks # 1 and #2, capacity: 1,260,000 gallons (30,000 barrels) each.
- (c) Two (2) internal floating roof, petroleum products storage tanks, constructed in 1962, known as Tanks # 3 and #4, capacity: 1,260,000 gallons (30,000 barrels) each.
- (d) Two (2) internal floating roof, petroleum products storage tanks, known as Tank #5, constructed in 1969, and Tank #6, constructed in 1971, capacity: 3,360,000 gallons (80,000 barrels) each.
- (e) One (1) fixed roof cone, petroleum products (excluding gasoline) / denatured ethanol storage tank, known as Tank #7, constructed in 1963, capacity: 42,000 gallons (1,000 barrels).
- (f) Three (3) fixed roof cone, petroleum products (excluding gasoline) storage tanks, known as Tanks #8 through #10, constructed in 1991, capacity: 30,000 gallons (714 barrels), each.
- (g) One (1) fixed roof cone, petroleum products (excluding gasoline) storage tank, known as Tank #11, constructed in 1991, capacity: 10,000 gallons (238 barrels).

A.3 Insignificant Activities [326 IAC 2-7-1(21)] [326 IAC 2-8-3(c)(3)(I)]

This stationary source also includes the following insignificant activities, as defined in 326 IAC 2-7-1(21):

- (a) The following VOC and HAP storage containers: Vessels storing lubricating oil, hydraulic oils, machining oils, and machining fluids.
- (b) Application of oils, greases lubricants or other nonvolatile materials applied as temporary protective coatings.

A.4 FESOP Applicability [326 IAC 2-8-2]

This stationary source, otherwise required to have a Part 70 permit as described in 326 IAC 2-7-2(a), has applied to the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ) to renew a Federally Enforceable State Operating Permit (FESOP).

A.5 Prior Permits Superseded [326 IAC 2-1.1-9.5]

- (a) All terms and conditions of previous permits issued pursuant to permitting programs approved into the state implementation plan have been either
 - (1) incorporated as originally stated,
 - (2) revised, or
 - (3) deletedby this permit.
- (b) All previous registrations and permits are superseded by this permit.

SECTION B

GENERAL CONDITIONS

B.1 Permit No Defense [IC 13]

Indiana statutes from IC 13 and rules from 326 IAC, quoted in conditions in this permit, are those applicable at the time the permit was issued. The issuance or possession of this permit shall not alone constitute a defense against an alleged violation of any law, regulation or standard, except for the requirement to obtain a FESOP under 326 IAC 2-8.

B.2 Definitions [326 IAC 2-8-1]

Terms in this permit shall have the definition assigned to such terms in the referenced regulation. In the absence of definitions in the referenced regulation, the applicable definitions found in the statutes or regulations (IC 13-11, 326 IAC 1-2, and 326 IAC 2-7) shall prevail.

B.3 Permit Term [326 IAC 2-8-4(2)]

This permit is issued for a fixed term of five (5) years from the original date, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date.

B.4 Enforceability [326 IAC 2-8-6]

Unless otherwise stated, all terms and conditions in this permit, including any provisions designed to limit the source's potential to emit, are enforceable by IDEM, the United States Environmental Protection Agency (U.S. EPA) and by citizens in accordance with the Clean Air Act.

B.5 Termination of Right to Operate [326 IAC 2-8-9] [326 IAC 2-8-3(h)]

The Permittee's right to operate this source terminates with the expiration of this permit unless a timely and complete renewal application is submitted at least nine (9) months prior to the date of expiration of the source's existing permit, consistent with 326 IAC 2-8-3(h) and 326 IAC 2-8-9.

B.6 Severability [326 IAC 2-8-4(4)]

The provisions of this permit are severable; a determination that any portion of this permit is invalid shall not affect the validity of the remainder of the permit.

B.7 Property Rights or Exclusive Privilege [326 IAC 2-8-4(5)(D)]

This permit does not convey any property rights of any sort, or any exclusive privilege.

B.8 Duty to Supplement and Provide Information [326 IAC 2-8-3(f)] [326 IAC 2-8-4(5)(E)] [326 IAC 2-8-5(a)(4)]

- (a) The Permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the permit application, shall promptly submit such supplementary facts or corrected information to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

The submittal by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (b) The Permittee shall furnish to IDEM, OAQ, within a reasonable time, any information that IDEM, OAQ, may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The submittal by the Permittee does require the certification by the "authorized individual"

as defined by 326 IAC 2-1.1-1(1). Upon request, the Permittee shall also furnish to IDEM, OAQ, copies of records required to be kept by this permit or, for information claimed to be confidential, the Permittee may furnish such records directly to the U. S. EPA along with a claim of confidentiality.[326 IAC 2-8-4(5)(E)]

- (c) The Permittee may include a claim of confidentiality in accordance with 326 IAC 17.1. When furnishing copies of requested records directly to U. S. EPA, the Permittee may assert a claim of confidentiality in accordance with 40 CFR 2, Subpart B.

B.9 Compliance Order Issuance [326 IAC 2-8-5(b)]

IDEM, OAQ may issue a compliance order to this Permittee upon discovery that this permit is in nonconformance with an applicable requirement. The order may require immediate compliance or contain a schedule for expeditious compliance with the applicable requirement.

B.10 Compliance with Permit Conditions [326 IAC 2-8-4(5)(A)] [326 IAC 2-8-4(5)(B)]

- (a) The Permittee must comply with all conditions of this permit. Noncompliance with any provisions of this permit is grounds for:
 - (1) Enforcement action;
 - (2) Permit termination, revocation and reissuance, or modification; and
 - (3) Denial of a permit renewal application.
- (b) It shall not be a defense for the Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.
- (c) An emergency does constitute an affirmative defense in an enforcement action provided the Permittee complies with the applicable requirements set forth in Section B, Emergency Provisions.

B.11 Certification [326 IAC 2-8-3(d)] [326 IAC 2-8-4(3)(C)(i)] [326 IAC 2-8-5(1)]

- (a) Where specifically designated by this permit or required by an applicable requirement, any application form, report, or compliance certification submitted shall contain certification by an authorized individual of truth, accuracy, and completeness. This certification, shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.
- (b) One (1) certification shall be included, using the attached Certification Form, with each submittal requiring certification.
- (c) An authorized individual is defined at 326 IAC 2-1.1-1(1).

B.12 Annual Compliance Certification [326 IAC 2-8-5(a)(1)]

- (a) The Permittee shall annually submit a compliance certification report which addresses the status of the source's compliance with the terms and conditions contained in this permit, including emission limitations, standards, or work practices. All certifications shall cover the time period from January 1 to December 31 of the previous year, and shall be submitted in letter form no later than July 1 of each year to:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

- (b) The annual compliance certification report required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, on or before the date it is due.
- (c) The annual compliance certification report shall include the following:
 - (1) The appropriate identification of each term or condition of this permit that is the basis of the certification;
 - (2) The compliance status;
 - (3) Whether compliance was continuous or intermittent;
 - (4) The methods used for determining the compliance status of the source, currently and over the reporting period consistent with 326 IAC 2-8-4(3); and
 - (5) Such other facts as specified in Sections D of this permit, IDEM, OAQ, may require to determine the compliance status of the source.

The notification which shall be submitted by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

B.13 Preventive Maintenance Plan [326 IAC 1-6-3] [326 IAC 2-8-4(9)] [326 IAC 2-8-5(a)(1)]

- (a) If required by specific condition(s) in Section D of this permit, the Permittee shall maintain and implement Preventive Maintenance Plans (PMPs), including the following information on each facility:
 - (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;
 - (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and
 - (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.
- (b) The Permittee shall implement the PMPs as necessary to ensure that failure to implement a PMP does not cause or contribute to a violation of any limitation on emissions or potential to emit.
- (c) A copy of the PMPs shall be submitted to IDEM, OAQ, upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ, may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or contributes to any violation. The PMP does not require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (d) Records of preventive maintenance shall be retained for a period of at least five (5) years. These records shall be kept at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.

B.14 Emergency Provisions [326 IAC 2-8-12]

- (a) An emergency, as defined in 326 IAC 2-7-1(12), is not an affirmative defense for an action brought for noncompliance with a federal or state health-based emission limitation, except as provided in 326 IAC 2-8-12.
- (b) An emergency, as defined in 326 IAC 2-7-1(12), constitutes an affirmative defense to an action brought for noncompliance with a health-based or technology-based emission limitation if the affirmative defense of an emergency is demonstrated through properly signed, contemporaneous operating logs or other relevant evidence that describes the following:

- (1) An emergency occurred and the Permittee can, to the extent possible, identify the causes of the emergency;
- (2) The permitted facility was at the time being properly operated;
- (3) During the period of an emergency, the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or other requirements in this permit;
- (4) For each emergency lasting one (1) hour or more, the Permittee notified IDEM, OAQ, within four (4) daytime business hours after the beginning of the emergency, or after the emergency was discovered or reasonably should have been discovered;

Telephone No.: 1-800-451-6027 (ask for Office of Air Quality, Compliance Section)
or,

Telephone No.: 317-233-5674 (ask for Compliance Section)
Facsimile No.: 317-233-5967

Failure to notify IDEM, OAQ, by telephone or facsimile within four (4) daytime business hours after the beginning of the emergency, or after the emergency is discovered or reasonably should have been discovered, shall constitute a violation of 326 IAC 2-8 and any other applicable rules. [326 IAC 2-8-12(f)]

- (5) For each emergency lasting one (1) hour or more, the Permittee submitted the attached Emergency Occurrence Report Form or its equivalent, either by mail or facsimile to:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

within two (2) working days of the time when emission limitations were exceeded due to the emergency.

The notice fulfills the requirement of 326 IAC 2-8-4(3)(C)(ii) and must contain the following:

- (A) A description of the emergency;
- (B) Any steps taken to mitigate the emissions; and
- (C) Corrective actions taken.

The notification which shall be submitted by the Permittee does not require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (6) The Permittee immediately took all reasonable steps to correct the emergency.
- (c) In any enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency has the burden of proof.
- (d) This emergency provision supersedes 326 IAC 1-6 (Malfunctions). This permit condition is in addition to any emergency or upset provision contained in any applicable requirement.
- (e) IDEM, OAQ, may require that the Preventive Maintenance Plans required under 326 IAC 2-8-3(c)(6) be revised in response to an emergency.
- (f) Failure to notify IDEM, OAQ, by telephone or facsimile of an emergency lasting more than one (1) hour in accordance with (b)(4) and (5) of this condition shall constitute a violation of 326 IAC 2-8 and any other applicable rules.
- (g) Operations may continue during an emergency only if the following conditions are met:
 - (1) If the emergency situation causes a deviation from a technology-based limit, the Permittee may continue to operate the affected emitting facilities during the emergency provided the Permittee immediately takes all reasonable steps to correct the emergency and minimize emissions.
 - (2) If an emergency situation causes a deviation from a health-based limit, the Permittee may not continue to operate the affected emissions facilities unless:
 - (A) The Permittee immediately takes all reasonable steps to correct the emergency situation and to minimize emissions; and
 - (B) Continued operation of the facilities is necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw material of substantial economic value.

Any operations shall continue no longer than the minimum time required to prevent the situations identified in (g)(2)(B) of this condition.

B.15 Deviations from Permit Requirements and Conditions [326 IAC 2-8-4(3)(C)(ii)]

- (a) Deviations from any permit requirements (for emergencies see Section B - Emergency Provision), the probable cause of such deviations, and any response steps or preventive measures taken shall be reported to:

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

using the attached Quarterly Deviation and Compliance Monitoring Report, or its equivalent. A deviation required to be reported pursuant to an applicable requirement that exists independent of this permit, shall be reported according to the schedule stated in the applicable requirement and does not need to be included in this report.

The Quarterly Deviation and Compliance Monitoring Report does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (b) A deviation is an exceedance of a permit limitation or a failure to comply with a requirement of the permit.
- (c) Emergencies shall be included in the Quarterly Deviation and Compliance Monitoring Report.

B.16 Permit Modification, Reopening, Revocation and Reissuance, or Termination [326 IAC 2-8-4(5)(C)] [326 IAC 2-8-7(a)] [326 IAC 2-8-8]

- (a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a FESOP modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any condition of this permit. [326 IAC 2-8-4(5)(C)] The notification by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (b) This permit shall be reopened and revised under any of the circumstances listed in IC 13-15-7-2 or if IDEM, OAQ determines any of the following:
 - (1) That this permit contains a material mistake.
 - (2) That inaccurate statements were made in establishing the emissions standards or other terms or conditions.
 - (3) That this permit must be revised or revoked to assure compliance with an applicable requirement. [326 IAC 2-8-8(a)]
- (c) Proceedings by IDEM, OAQ, to reopen and revise this permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of this permit for which cause to reopen exists. Such reopening and revision shall be made as expeditiously as practicable. [326 IAC 2-8-8(b)]
- (d) The reopening and revision of this permit, under 326 IAC 2-8-8(a), shall not be initiated before notice of such intent is provided to the Permittee by IDEM, OAQ, at least thirty (30) days in advance of the date this permit is to be reopened, except that IDEM, OAQ, may provide a shorter time period in the case of an emergency. [326 IAC 2-8-8(c)]

B.17 Permit Renewal [326 IAC 2-8-3(h)]

- (a) The application for renewal shall be submitted using the application form or forms prescribed by IDEM, OAQ, and shall include the information specified in 326 IAC 2-8-3. Such information shall be included in the application for each emission unit at this source, except those emission units included on the trivial or insignificant activities list contained in 326 IAC 2-7-1(21) and 326 IAC 2-7-1(40). The renewal application does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

Request for renewal shall be submitted to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, IN 46206-6015

- (b) Timely Submittal of Permit Renewal [326 IAC 2-8-3]
 - (1) A timely renewal application is one that is:
 - (A) Submitted at least nine (9) months prior to the date of the expiration of this permit; and
 - (B) If the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, on or before the date it is due.
 - (2) If IDEM, OAQ, upon receiving a timely and complete permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect until the renewal permit has been issued or denied.
- (c) Right to Operate After Application for Renewal [326 IAC 2-8-9]

If the Permittee submits a timely and complete application for renewal of this permit, the source's failure to have a permit is not a violation of 326 IAC 2-8 until IDEM, OAQ, takes final action on the renewal application, except that this protection shall cease to apply if, subsequent to the completeness determination, the Permittee fails to submit by the deadline specified in writing by IDEM, OAQ, any additional information identified as needed to process the application.

B.18 Permit Amendment or Revision [326 IAC 2-8-10] [326 IAC 2-8-11.1]

- (a) Permit amendments and revisions are governed by the requirements of 326 IAC 2-8-10 or 326 IAC 2-8-11.1 whenever the Permittee seeks to amend or modify this permit.
- (b) Any application requesting an amendment or modification of this permit shall be submitted to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

Any such application should be certified by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (c) The Permittee may implement the administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-8-10(b)(3)]

B.19 Operational Flexibility [326 IAC 2-8-15]

- (a) The Permittee may make any change or changes at this source that are described in 326 IAC 2-8-15(b) through (d), without prior permit revision, if each of the following conditions is met:

- (1) The changes are not modifications under any provision of Title I of the Clean Air Act;
- (2) Any approval required by 326 IAC 2-8-11.1 has been obtained;
- (3) The changes do not result in emissions which exceed the emissions allowable under this permit (whether expressed herein as a rate of emissions or in terms of total emissions);
- (4) The Permittee notifies the:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

and

United States Environmental Protection Agency, Region V
Air and Radiation Division, Regulation Development Branch - Indiana (AR-18J)
77 West Jackson Boulevard
Chicago, Illinois 60604-3590

in advance of the change by written notification at least ten (10) days in advance of the proposed change. The Permittee shall attach every such notice to the Permittee's copy of this permit; and

- (5) The Permittee maintains records on-site which document, on a rolling five (5) year basis, all such changes and emissions trading that are subject to 326 IAC 2-8-15(b) through (d) and makes such records available, upon reasonable request, to public review.

Such records shall consist of all information required to be submitted to IDEM, OAQ, in the notices specified in 326 IAC 2-8-15(b), (c)(1), and (d).

- (b) The Permittee may make Section 502(b)(10) of the Clean Air Act changes (this term is defined at 326 IAC 2-7-1(36)) without a permit revision, subject to the constraint of 326 IAC 2-8-15(a) and the following additional conditions:

- (1) A brief description of the change within the source;
- (2) The date on which the change will occur;
- (3) Any change in emissions; and
- (4) Any permit term or condition that is no longer applicable as a result of the change.

The notification which shall be submitted by the Permittee does not require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1.

- (c) Emission Trades [326 IAC 2-8-15(c)]
The Permittee may trade increases and decreases in emissions in the source, where the applicable SIP provides for such emission trades without requiring a permit revision, subject to the constraints of Section (a) of this condition and those in 326 IAC 2-8-15(c).

- (d) Alternative Operating Scenarios [326 IAC 2-8-15(d)]
The Permittee may make changes at the source within the range of alternative operating scenarios that are described in the terms and conditions of this permit in accordance with 326 IAC 2-8-4(7). No prior notification of IDEM, OAQ or U.S. EPA is required.

B.20 Permit Revision Requirement [326 IAC 2-8-11.1]

A modification, construction, or reconstruction is governed by the requirements of 326 IAC 2 and 326 IAC 2-8-11.1.

B.21 Inspection and Entry [326 IAC 2-8-5(a)(2)] [IC 13-14-2-2]

Upon presentation of proper identification cards, credentials, and other documents as may be required by law, and subject to the Permittee's right under all applicable laws and regulations to assert that the information collected by the agency is confidential and entitled to be treated as such, the Permittee shall allow IDEM, OAQ, U.S. EPA, or an authorized representative to perform the following:

- (a) Enter upon the Permittee's premises where a FESOP source is located, or emissions related activity is conducted, or where records must be kept under the conditions of this permit;
- (b) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
- (c) Inspect, at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;
- (d) Sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and
- (e) Utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements.

B.22 Transfer of Ownership or Operational Control [326 IAC 2-8-10]

- (a) The Permittee must comply with the requirements of 326 IAC 2-8-10 whenever the Permittee seeks to change the ownership or operational control of the source and no other change in the permit is necessary.
- (b) Any application requesting a change in the ownership or operational control of the source shall contain a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new Permittee. The application shall be submitted to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

The application which shall be submitted by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-8-11(b)(3)]

B.23 Annual Fee Payment [326 IAC 2-7-19] [326 IAC 2-8-4(6)] [326 IAC 2-8-16]

- (a) The Permittee shall pay annual fees to IDEM, OAQ, within thirty (30) calendar days of receipt of a billing. Pursuant to 326 IAC 2-7-19(b), if the Permittee does not receive a bill from IDEM, OAQ the applicable fee is due April 1 of each year.
- (b) Failure to pay may result in administrative enforcement action, or revocation of this permit.
- (c) The Permittee may call the following telephone numbers: 1-800-451-6027 or 317-233-0425 (ask for OAQ, Technical Support and Modeling Section), to determine the appropriate permit fee.

SECTION C

SOURCE OPERATION CONDITIONS

Entire Source

Emissions Limitations and Standards [326 IAC 2-8-4(1)]

C.1 Overall Source Limit [326 IAC 2-8]

The purpose of this permit is to limit this source's potential to emit to less than major source levels for the purpose of Section 502(a) of the Clean Air Act.

(a) Pursuant to 326 IAC 2-8:

- (1) The potential to emit any regulated pollutant, except particulate matter (PM), from the entire source shall be limited to less than one-hundred (100) tons per twelve (12) consecutive month period;
- (2) The potential to emit any individual hazardous air pollutant (HAP) from the entire source shall be limited to less than ten (10) tons per twelve (12) consecutive month period; and
- (3) The potential to emit any combination of HAPs from the entire source shall be limited to less than twenty-five (25) tons per twelve (12) consecutive month period.

(b) This condition shall include all emission points at this source including those that are insignificant as defined in 326 IAC 2-7-1(21). The source shall be allowed to add insignificant activities not already listed in this permit, provided the source's potential to emit does not exceed the above specified limits.

(c) Section D of this permit contains independently enforceable provisions to satisfy this requirement.

C.2 Opacity [326 IAC 5-1]

Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall meet the following, unless otherwise stated in this permit:

- (a) Opacity shall not exceed an average of forty percent (40%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
- (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

C.3 Open Burning [326 IAC 4-1] [IC 13-17-9]

The Permittee shall not open burn any material except as provided in 326 IAC 4-1-3, 326 IAC 4-1-4 or 326 IAC 4-1-6. The previous sentence notwithstanding, the Permittee may open burn in accordance with an open burning approval issued by the Commissioner under 326 IAC 4-1-4.1.

C.4 Incineration [326 IAC 4-2] [326 IAC 9-1-2(3)]

The Permittee shall not operate an incinerator or incinerate any waste or refuse except as provided in 326 IAC 4-2 and in 326 IAC 9-1-2.

C.5 Fugitive Dust Emissions [326 IAC 6-4]

The Permittee shall not allow fugitive dust to escape beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located, in a manner that would violate 326 IAC 6-4 (Fugitive Dust Emissions).

C.6 Operation of Equipment [326 IAC 2-8-5(a)(4)]

Except as otherwise provided by statute, rule or in this permit, all air pollution control equipment listed in this permit and used to comply with an applicable requirement shall be operated at all times that the emission unit vented to the control equipment is in operation.

C.7 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M]

- (a) Notification requirements apply to each owner or operator. If the combined amount of regulated asbestos containing material (RACM) to be stripped, removed or disturbed is at least 260 linear feet on pipes or 160 square feet on other facility components, or at least thirty-five (35) cubic feet on all facility components, then the notification requirements of 326 IAC 14-10-3 are mandatory. All demolition projects require notification whether or not asbestos is present.
- (b) The Permittee shall ensure that a written notification is sent on a form provided by the Commissioner at least ten (10) working days before asbestos stripping or removal work or before demolition begins, per 326 IAC 14-10-3, and shall update such notice as necessary, including, but not limited to the following:
 - (1) When the amount of affected asbestos containing material increases or decreases by at least twenty percent (20%); or
 - (2) If there is a change in the following:
 - (A) Asbestos removal or demolition start date;
 - (B) Removal or demolition contractor; or
 - (C) Waste disposal site.
- (c) The Permittee shall ensure that the notice is postmarked or delivered according to the guidelines set forth in 326 IAC 14-10-3(2).
- (d) The notice to be submitted shall include the information enumerated in 326 IAC 14-10-3(3).

All required notifications shall be submitted to:

Indiana Department of Environmental Management
Asbestos Section, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

The notice shall include a signed certification from the owner or operator that the information provided in this notification is correct and that only Indiana licensed workers and project supervisors will be used to implement the asbestos removal project. The notifications do not require a certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (e) Procedures for Asbestos Emission Control
The Permittee shall comply with the applicable emission control procedures in 326 IAC 14-10-4 and 40 CFR 61.145(c). Per 326 IAC 14-10-4 emission control requirements are applicable for any removal or disturbance of RACM greater than three (3) linear feet on pipes or three (3) square feet on any other facility components or a total of at least 0.75 cubic feet on all facility components.
- (f) Indiana Accredited Asbestos Inspector
The Permittee shall comply with 326 IAC 14-10-1(a) that requires the owner or operator, prior to a renovation/demolition, to use an Indiana Accredited Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos. The requirement that the inspector be accredited is federally enforceable.

Testing Requirements [326 IAC 2-8-4(3)]

C.8 Performance Testing [326 IAC 3-6]

- (a) All testing shall be performed according to the provisions of 326 IAC 3-6 (Source Sampling Procedures), except as provided elsewhere in this permit, utilizing any applicable procedures and analysis methods specified in 40 CFR 51, 40 CFR 60, 40 CFR 61, 40 CFR 63, 40 CFR 75, or other procedures approved by IDEM, OAQ.

A test protocol, except as provided elsewhere in this permit, shall be submitted to:

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

no later than thirty-five (35) days prior to the intended test date. The protocol submitted by the Permittee does not require certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual test date. The notification submitted by the Permittee does not require certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (c) Pursuant to 326 IAC 3-6-4(b), all test reports must be received by IDEM, OAQ, not later than forty-five (45) days after the completion of the testing. An extension may be granted by IDEM, OAQ, if the source submits to IDEM, OAQ, a reasonable written explanation not later than five (5) days prior to the end of the initial forty-five (45) day period.

Compliance Requirements [326 IAC 2-1.1-11]

C.9 Compliance Requirements [326 IAC 2-1.1-11]

The commissioner may require stack testing, monitoring, or reporting at any time to assure compliance with all applicable requirements. Any monitoring or testing shall be performed in accordance with 326 IAC 3 or other methods approved by the commissioner or the U. S. EPA.

Compliance Monitoring Requirements [326 IAC 2-8-4] [326 IAC 2-8-5(a)(1)]

C.10 Compliance Monitoring [326 IAC 2-8-4(3)] [326 IAC 2-8-5(a)(1)]

Unless otherwise specified in this permit, all monitoring and record keeping requirements not already legally required shall be implemented upon issuance of this permit. If required by Section

D, the Permittee shall be responsible for installing any necessary equipment and initiating any required monitoring related to that equipment.

Unless otherwise specified in the approval for the new emissions unit, compliance monitoring for new emission units or emission units added through a permit revision shall be implemented when operation begins.

C.11 Maintenance of Emission Monitoring Equipment [326 IAC 2-8-4(3)(A)(iii)]

- (a) In the event that a breakdown of the emission monitoring equipment occurs, a record shall be made of the times and reasons of the breakdown and efforts made to correct the problem. To the extent practicable, supplemental or intermittent monitoring of the parameter should be implemented at intervals no less frequent than required in Section D of this permit until such time as the monitoring equipment is back in operation. In the case of continuous monitoring, supplemental or intermittent monitoring of the parameter should be implemented at intervals no often less than once an hour until such time as the continuous monitor is back in operation.
- (b) The Permittee shall install, calibrate, quality assure, maintain, and operate all necessary monitors and related equipment. In addition, prompt corrective action shall be initiated whenever indicated.

C.12 Monitoring Methods [326 IAC 3] [40 CFR 60] [40 CFR 63]

Any monitoring or testing performed required by Section D of this permit shall be performed according to the provisions of 326 IAC 3, 40 CFR 60, Appendix A, 40 CFR 60 Appendix B, 40 CFR 63 or other approved methods as specified in this permit.

Corrective Actions and Response Steps [326 IAC 2-8-4] [326 IAC 2-8-5(a)(1)]

C.13 Risk Management Plan [326 IAC 2-8-4] [40 CFR 68.215]

If a regulated substance, subject to 40 CFR 68, is present at a source in more than a threshold quantity, 40 CFR 68 is an applicable requirement and the Permittee shall submit:

- (a) A compliance schedule for meeting the requirements of 40 CFR 68; or
- (b) As a part of the annual compliance certification submitted under 326 IAC 2-7-6(5), a certification statement that the source is in compliance with all the requirements of 40 CFR 68, including the registration and submission of a Risk Management Plan (RMP);

All documents submitted pursuant to this condition shall include the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

C.14 Compliance Response Plan - Preparation, Implementation, Records, and Reports [326 IAC 2-8-4] [326 IAC 2-8-5]

- (a) The Permittee is required to prepare a Compliance Response Plan (CRP) for each compliance monitoring condition of this permit. A CRP shall be submitted to IDEM, OAQ upon request. The CRP shall be prepared within ninety (90) days after issuance of this permit by the Permittee, supplemented from time to time by the Permittee, maintained on site, and comprised of:
 - (1) Reasonable response steps that may be implemented in the event that a response step is needed pursuant to the requirements of Section D of this permit; and an expected timeframe for taking reasonable response steps.

- (2) If, at any time, the Permittee takes reasonable response steps that are not set forth in the Permittee's current Compliance Response Plan and the Permittee documents such response in accordance with subsection (e) below, the Permittee shall amend its Compliance Response Plan to include such response steps taken.
- (b) For each compliance monitoring condition of this permit, reasonable response steps shall be taken when indicated by the provisions of that compliance monitoring condition as follows:
 - (1) Reasonable response steps shall be taken as set forth in the Permittee's current Compliance Response Plan; or
 - (2) If none of the reasonable response steps listed in the Compliance Response Plan is applicable or responsive to the excursion, the Permittee shall devise and implement additional response steps as expeditiously as practical. Taking such additional response steps shall not be considered a deviation from this permit so long as the Permittee documents such response steps in accordance with this condition.
 - (3) If the Permittee determines that additional response steps would necessitate that the emissions unit or control device be shut down, the IDEM, OAQ shall be promptly notified of the expected date of the shut down, the status of the applicable compliance monitoring parameter with respect to normal, and the results of the actions taken up to the time of notification.
 - (4) Failure to take reasonable response steps shall constitute a violation of the permit.
- (c) The Permittee is not required to take any further response steps for any of the following reasons:
 - (1) A false reading occurs due to the malfunction of the monitoring equipment and prompt action was taken to correct the monitoring equipment.
 - (2) The Permittee has determined that the compliance monitoring parameters established in the permit conditions are technically inappropriate, has previously submitted a request for an administrative amendment to the permit, and such request has not been denied.
 - (3) An automatic measurement was taken when the process was not operating.
 - (4) The process has already returned or is returning to operating within "normal" parameters and no response steps are required.
- (d) When implementing reasonable steps in response to a compliance monitoring condition, if the Permittee determines that an exceedance of an emission limitation has occurred, the Permittee shall report such deviations pursuant to Section B-Deviations from Permit Requirements and Conditions.
- (e) The Permittee shall record all instances when response steps are taken. In the event of an emergency, the provisions of 326 IAC 2-7-16 (Emergency Provisions) requiring prompt corrective action to mitigate emissions shall prevail.
- (f) Except as otherwise provided by a rule or provided specifically in Section D, all monitoring as required in Section D shall be performed when the emission unit is operating, except for time necessary to perform quality assurance and maintenance activities.

C.15 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-8-4] [326 IAC 2-8-5]

- (a) When the results of a stack test performed in conformance with Section C - Performance Testing, of this permit exceed the level specified in any condition of this permit, the Permittee shall take appropriate response actions. The Permittee shall submit a description of these response actions to IDEM, OAQ, within thirty (30) days of receipt of the test results. The Permittee shall take appropriate action to minimize excess emissions from the affected facility while the response actions are being implemented.
- (b) A retest to demonstrate compliance shall be performed within one hundred twenty (120) days of receipt of the original test results. Should the Permittee demonstrate to IDEM, OAQ that retesting in one-hundred and twenty (120) days is not practicable, IDEM, OAQ may extend the retesting deadline.
- (c) IDEM, OAQ reserves the authority to take any actions allowed under law in response to noncompliant stack tests.

The documents submitted pursuant to this condition do require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

Record Keeping and Reporting Requirements [326 IAC 2-8-4(3)]

C.16 Emission Statement [326 IAC 2-6] [326 IAC 2-8-4(3)]

- (a) The Permittee shall submit an emission statement certified pursuant to the requirements of 326 IAC 2-6. This statement must be received in accordance with the compliance schedule specified in 326 IAC 2-6-3 and must comply with the minimum requirements specified in 326 IAC 2-6-4. The submittal should cover the period defined in 326 IAC 2-6-2(8). The statement must be submitted to:

Indiana Department of Environmental Management
Technical Support and Modeling Section, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

The emission statement does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (b) The emission statement required by this permit shall be considered timely if the date post-marked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, on or before the date it is due.

C.17 General Record Keeping Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-5]

- (a) Records of all required data, reports and support information shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. These records shall be kept at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.
- (b) Unless otherwise specified in this permit, all record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance.

C.18 General Reporting Requirements [326 IAC 2-8-4(3)(C)] [326 IAC 2-1.1-11]

- (a) The source shall submit the attached Quarterly Deviation and Compliance Monitoring Report or its equivalent. Any deviation from permit requirements, the date(s) of each deviation, the cause of the deviation, and the response steps taken must be reported. This report shall be submitted within thirty (30) days of the end of the reporting period. The Quarterly Deviation and Compliance Monitoring Report shall include the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (b) The report required in (a) of this condition and reports required by conditions in Section D of this permit shall be submitted to:

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015
- (c) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, on or before the date it is due.
- (d) Unless otherwise specified in this permit, any quarterly report required in Section D of this permit shall be submitted within thirty (30) days of the end of the reporting period. The report does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (e) Reporting periods are based on calendar years.

Stratospheric Ozone Protection

C.19 Compliance with 40 CFR 82 and 326 IAC 22-1

Pursuant to 40 CFR 82 (Protection of Stratospheric Ozone), Subpart F, except as provided for motor vehicle air conditioners in Subpart B, the Permittee shall comply with the standards for recycling and emissions reduction:

- (a) Persons opening appliances for maintenance, service, repair or disposal must comply with the required practices pursuant to 40 CFR 82.156
- (b) Equipment used during the maintenance, service, repair or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158.
- (c) Persons performing maintenance, service, repair or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161.

SECTION D.1 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-8-4(10)]: One (1) loading rack

- (a) One (1) truck loading rack constructed in 1963, known as #12, equipped with a flare vapor combustion unit (VCU), installed in 1993, and a vapor collection system, capacity: 99,000 gallons of petroleum products and/or denatured ethanol per hour.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

Emission Limitations and Standards [326 IAC 2-8-4(1)]

D.1.1 Volatile Organic Compounds (VOC) and Hazardous Air Pollutants (HAPs) [326 IAC 2-8-4]

Pursuant to 326 IAC 2-8-4, the following emission limitations apply:

- (a) The total throughput of petroleum products and/or denatured ethanol at the one (1) loading rack, known as #12, shall be limited to 709,813,559 gallons per twelve (12) consecutive month period.
- (b) VOC emissions from petroleum products and denatured ethanol shall not exceed 0.236 pounds per thousand (1,000) gallons of throughput at the loading rack. The throughput in combination with the emission factor limit is equivalent to a VOC emission rate of 83.8 tons per year from the loading rack and limits the entire source potential to emit VOC to less than one hundred (100) tons per year.
- (c) This throughput also limits the potential to emit of each individual HAP to 1.88 tons per year, total HAPs to 3.45 tons per year from the loading rack and less than ten (10) tons per year for each individual HAP and twenty-five (25) tons per year of the combination of HAPs from the entire source.

These emission limits, combined with the emission limit in Condition D.2.1 will make the requirements of 326 IAC 2-7, 326 IAC 20-1, and 40 CFR 63, Subpart R not applicable.

- (d) The requirements from the First Significant Revision 063-12277-00004, issued on September 18, 2000, Conditions D.1.1 and D.2.1(c) that the total throughput of gasoline and diesel oil through the loading racks shall not exceed 860,240,000 gallons per 12-month rolling period has not been included in the renewal because the throughput limit required revision so that the entire source is limited to less than one hundred (100) tons of VOC per year. Thus, Conditions D.1.1 and D.2.1(c) of First Significant Revision 063-12277-00004 are hereby rescinded.
- (e) The requirements from the F 063-5123-00004, issued on December 13, 1996, Condition D.1.2 that the hazardous air pollutants from the entire source shall be such that the amount of any single hazardous air pollutant (HAP) shall not exceed 0.75 tons per month and the amount of any combination of HAPs shall not exceed 2.00 tons per month, therefore, the requirements of 326 IAC 2-7 do not apply has not been included since Condition D.1.1(c) limits the HAPs from the loading rack and Condition D.2.1(b) limits the HAPs from the storage tanks. Thus, Condition D.1.2 of F 063-5123-00004 is hereby rescinded.

D.1.2 Nonapplicability of Loading Rack and Vapor Collection System Operations [40 CFR 60.500 through 506, Subpart XX]

The requirement from F 063-5123-00004, issued December 13, 1996, Condition D.2.1(c), Volatile

Organic Compound, has not been included in the renewal. The loading rack was constructed before the rule applicability date of December 17, 1980. The addition of the flare vapor combustion unit (VCU), installed in 1993, is the addition of a control device, which does not constitute a modification. Thus, Condition D.2.1(c) of F 063-5123-00004 is hereby rescinded.

D.1.3 Volatile Organic Compounds (VOC) [326 IAC 8-4-4]

Pursuant to 326 IAC 8-4-4 (Bulk gasoline terminals):

- (a) No owner or operator of a bulk gasoline terminal shall permit the loading of gasoline into any transport, excluding railroad tank cars, or barges, unless:
 - (1) The bulk gasoline terminal is equipped with a vapor control system, in good working order, in operation and consisting of one of the following:
 - (A) An adsorber or condensation system which processes and recovers vapors and gases from the equipment being controlled, releasing no more than 80 milligrams per liter of VOC to the atmosphere.
 - (B) A vapor collection system which directs all vapors to a fuel gas system or incinerator.
 - (C) An approved control system, demonstrated to have control efficiency equivalent to or greater than (A) above.
 - (2) Displaced vapors and gases are vented only to the vapor control system.
 - (3) A means is provided to prevent liquid drainage from the loading device when it is not in use or to accomplish complete drainage before the loading device is disconnected.
 - (4) All loading and vapor lines are equipped with fittings which make vapor-tight connections and which will be closed upon disconnection.
- (b) If employees of the owner of the bulk gasoline terminal are not present during loading, it shall be the responsibility of the owner of the transport to make certain the vapor control system is attached to the transport. The owner of the terminal shall take all reasonable steps to insure that owners of transports loading at the terminal during unsupervised times comply with this section.

D.1.4 Volatile Organic Compounds (VOC) [326 IAC 8-4-7]

Pursuant to 326 IAC 8-4-7 (petroleum sources; gasoline transports), the source and transports at this source shall comply with the following requirements:

- (a) No owner or operator of a gasoline transport shall cause, allow, or permit the transfer of gasoline between transports and storage tanks that are equipped with a vapor balance system or vapor recovery system unless:
 - (1) the vapor balance system or vapor recovery system is connected and operating according to manufacturers' specifications;
 - (2) gasoline transport compartment hatches are closed at all times during loading operations;

- (3) except as provided in Condition D.1.5(f), there are no visible leaks, or otherwise detectable leaks (measured at twenty-one thousand (21,000) parts per million as propane as specified in 40 CFR 63.425(f)(1)*), in the gasoline transport's pressure/vacuum relief valves, hatch cover, trailer compartments, storage tanks, or associated vapor and liquid lines during loading or unloading; and
 - (4) the pressure relief valves on gasoline transports are set to release at no less than four and eight-tenths (4.8) kilo Pascals (seven-tenths (0.7) pounds per square inch).
- (b) Tank wagons are exempt from vapor balance requirements.
 - (c) When employees of the owner of a bulk gasoline terminal are present to supervise or perform loading, the owner of the terminal shall be responsible for compliance with subsection (a)(1) through (a)(3). The owner of the terminal shall also ensure that owners of gasoline transports loading at the terminal during unsupervised times comply with this section.
 - (d) Gasoline transports must be designed, maintained, and operated so as to be vapor-tight.
 - (e) Transfer of gasoline between a gasoline transport and a storage tank that is not equipped with a vapor balance system or vapor recovery system is not subject to this section.

D.1.5 Volatile Organic Compounds (VOC) [326 IAC 8-4-9]

Pursuant to 326 IAC 8-4-9 (Leaks from transports and vapor collection systems, records) the source will operate a vapor control system. The requirements are as follows:

- (a) No person shall allow a gasoline transport that is subject to this rule and that has a capacity of two thousand (2,000) gallons or more to be filled or emptied unless the gasoline transport completes the following:
 - (1) Annual leak detection testing before the end of the twelfth calendar month following the previous year's test, according to test procedures contained in 40 CFR 63.425 (e), as follows:
 - (A) Conduct the pressure and vacuum tests for the transport's cargo tank using a time period of five (5) minutes. The initial pressure for the pressure test shall be four hundred sixty (460) millimeters H₂O (eighteen (18) inches H₂O) gauge. The initial vacuum for the vacuum test shall be one hundred fifty (150) millimeters H₂O (six (6) inches H₂O) gauge. The maximum allowable pressure or vacuum change is twenty-five (25) millimeters H₂O (one (1) inch H₂O) in five (5) minutes.
 - (B) Conduct the pressure test of the cargo tank's internal vapor valve as follows:
 - (i) After completing the test under clause (A), use the procedures in 40 CFR 60, Appendix A, Method 27* to repressurize the tank to four hundred sixty (460) millimeters H₂O (eighteen (18) inches H₂O) gauge. Close the transport's internal vapor valve or valves, thereby isolating the vapor return line and manifold from the tank.
 - (ii) Relieve the pressure in the vapor return line to atmospheric pressure, then reseal the line. After five (5) minutes, record the gauge

pressure in the vapor return line and manifold. The maximum allowable five (5) minute pressure increase is one hundred thirty (130) millimeters H₂O (five (5) inches H₂O).

- (2) Repairs by the gasoline transport owner or operator, if the transport does not meet the criteria of subdivision (1), and retesting to prove compliance with the criteria of subdivision (1).
- (b) The annual test data remain valid until the end of the twelfth calendar month following the test. The owner of the gasoline transport shall be responsible for compliance with subsection (b) and shall provide the owner of the loading facility with the most recent valid modified 40 CFR 60, Appendix A, Method 27* test results upon request. The owner of the loading facility shall take all reasonable steps, including reviewing the test date and tester's signature, to ensure that gasoline transports loading at its facility comply with subsection (a).
- (c) The Permittee shall:
 - (1) design and operate the applicable system and the gasoline loading equipment in a manner that prevents:
 - (A) gauge pressure from exceeding four thousand five hundred (4,500) pascals (eighteen (18) inches of H₂O) and a vacuum from exceeding one thousand five hundred (1,500) pascals (six (6) inches of H₂O) in the gasoline transport;
 - (B) a reading equal to or greater than twenty-one thousand (21,000) parts per million as propane, from all points on the perimeter of a potential leak source when measured by the method referenced in 40 CFR 60, Appendix A, Method 21*, or an equivalent procedure approved by the commissioner during loading or unloading operations at gasoline dispensing facilities, bulk plants, and bulk terminals; and
 - (C) avoidable visible liquid leaks during loading or unloading operations at gasoline dispensing facilities, bulk plants, and bulk terminals; and
 - (2) within fifteen (15) days, repair and retest a vapor balance, collection, or control system that exceeds the limits in subdivision (1).
- (d) The department may, at any time, monitor a gasoline transport, vapor balance, or vapor control system to confirm continuing compliance with (a).
- (e) If the commissioner allows alternative test procedures, such method shall be submitted to the U.S. EPA as a SIP revision.
- (f) During compliance tests conducted under 326 IAC 3-6 (stack testing), each vapor balance or control system shall be tested applying the standards described in subsection (c)(1)(B). Testers shall use 40 CFR 60, Appendix A, Method 21 to determine if there are any leaks from the hatches and the flanges of the gasoline transports. If any leak is detected, the transport cannot be used for the capacity of the compliance test of the bulk gas terminal. The threshold for leaks shall be ten thousand (10,000) parts per million methane.

D.1.6 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of

this permit, is required for this facility and any control devices.

Compliance Determination Requirements

D.1.7 VOC and HAPs

In order to comply with Conditions D.1.1, D.1.3, and D.1.4, the flare vapor combustion unit (VCU) with the vapor collection system for VOC and HAPs control shall be in operation and control emissions from the loading rack at all times gasoline is being loaded.

D.1.8 Testing Requirements [326 IAC 2-8-5(a)(1), (4)] [326 IAC 2-1.1-11]

- (a) To demonstrate compliance with Condition D.1.1, a compliance stack test shall be performed between May 7, 2002 and November 7, 2002 which corresponds to five (5) years since the latest valid stack test plus one hundred and eighty (180) days, at the flare vapor combustion unit (VCU) with the vapor control system. This test shall be performed according to 40 CFR 60, Appendix A, Methods 25 and 25A.
- (b) To demonstrate compliance with Condition D.1.5, the Permittee shall perform testing required in D.1.5.
- (c) If the commissioner allows alternative test procedures in (c)(1)(B) of Condition D.1.5, such method shall be submitted to the U.S. EPA as a SIP revision.
- (d) During compliance tests conducted under 326 IAC 3-6 (stack testing), each vapor balance or control system shall be tested applying the standards described in (c)(1)(B) of Condition D.1.5. Testers shall use 40 CFR 60, Appendix A, Method 21 to determine if there are any leaks from the hatches and the flanges of the gasoline transports. If any leak is detected, the transport cannot be used for the capacity of the compliance test of the bulk gas terminal. The threshold for leaks shall be ten thousand (10,000) parts per million methane.

Compliance Monitoring Requirements [326 IAC 2-8-4] [326 IAC 2-8-5(a)(1)]

D.1.9 Thermal Incinerator (Flare) Operation

For the flare vapor combustion unit (VCU), to document compliance with Condition D.1.1, the Permittee shall perform daily checks of the key operating parameters, including pilot flame presence.

Record Keeping and Reporting Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-16]

D.1.10 Record Keeping Requirements [326 IAC 2-8-4] [326 IAC 8-4-9]

- (a) To document compliance with Condition D.1.1 the Permittee shall maintain records at the source of the volume (in gallons) of each fuel received, including purchase orders and invoices necessary to verify the type and amount used;
- (b) To document compliance with D.1.5, the owner or operator of a vapor balance or vapor control system subject to this section shall maintain records of all certification testing. The records shall identify the following:
 - (1) The vapor balance, vapor collection, or vapor control system.
 - (2) The date of the test and, if applicable, retest.
 - (3) The results of the test and, if applicable, retest.

The records shall be maintained in a legible, readily available condition for at least two (2) years after the date the testing and, if applicable, retesting were completed.

- (c) To document compliance with Condition D.1.5, the owner or operator of a gasoline transport subject to this section shall keep a legible copy of the transport's most recent valid annual modified 40 CFR 60, Appendix A, Method 27 test either in the cab of the transport or affixed to the transport trailer. The test record shall identify the following:
- (1) The gasoline transport.
 - (2) The type and date of the test and, if applicable, date of retest.
 - (3) The test methods, test data, and results certified as true, accurate, and in compliance with this rule by the person who performs the test.

This copy shall be made available immediately upon request to the department and to the owner of the loading facility for inspection and review. The department shall be allowed to make copies of the test results.

- (d) To document compliance with Condition D.1.5, the Permittee shall maintain records of the following:
- (1) Certification testing required under Condition D.1.5(e), and
 - (2) Test required under Condition D.1.5(f).
- (e) To document compliance with Condition D.1.1, the Permittee shall maintain records at the facility of the materials used that contain any HAPs. The records shall be complete and sufficient to establish compliance with the HAP emission limits in Condition D.1.1. The records shall contain a minimum of the following:
- (1) The HAP/VOC ratio of each fuel received;
 - (2) The weight of VOC, individual HAPs and total HAPs emitted for each compliance period, considering capture and control efficiency, if applicable; and
 - (3) Identification of the facility or facilities associated with the usage of each HAP.
- (f) To document compliance with Condition D.1.9, the Permittee shall maintain records of the pilot flame presence when the thermal incinerator (flare) is in use.

D.1.11 Reporting Requirements

A quarterly summary of the information to document compliance with Condition D.1.1, shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the six (6) month period being reported.

SECTION D.2

FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-8-4(10)]: Eleven (11) storage tanks

- (b) Two (2) fixed roof cone, petroleum products (excluding gasoline) storage tanks, constructed in 1962, known as Tanks # 1 and #2, capacity: 1,260,000 gallons (30,000 barrels) each.
- (c) Two (2) internal floating roof, petroleum products storage tanks, constructed in 1962, known as Tanks # 3 and #4, capacity: 1,260,000 gallons (30,000 barrels) each.
- (d) Two (2) internal floating roof, petroleum products storage tanks, known as Tank #5, constructed in 1969, and Tank #6, constructed in 1971, capacity: 3,360,000 gallons (80,000 barrels) each.
- (e) One (1) fixed roof cone, petroleum products (excluding gasoline) / denatured ethanol storage tank, known as Tank #7, constructed in 1963, capacity: 42,000 gallons (1,000 barrels).
- (f) Three (3) fixed roof cone, petroleum products (excluding gasoline) storage tanks, known as Tanks #8 through #10, constructed in 1991, capacity: 30,000 gallons (714 barrels), each.
- (g) One (1) fixed roof cone, petroleum products (excluding gasoline) storage tank, known as Tank #11, constructed in 1991, capacity: 10,000 gallons (238 barrels).

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

Emission Limitations and Standards [326 IAC 2-8-4(1)]

D.2.1 Volatile Organic Compounds (VOC) and Hazardous Air Pollutants (HAPs) [326 IAC 2-8-4]

- (a) Any change or modification that increases the potential to emit VOC to more than 13.4 tons per year from the eleven (11) storage tanks, known as Tanks #1 through #11, may cause potential to emit VOC for the entire source to be greater than one hundred (100) tons per year and make the requirements of 326 IAC 2-7 applicable and shall require prior IDEM, OAQ, approval.
- (b) An change or modification which increases the potential to emit of any single HAP to more than 0.282 tons per year or total HAPs to more than 0.595 tons per year from Tanks #1 through #11, may make the requirements of 326 IAC 2-7 applicable and shall require prior IDEM, OAQ, approval.
- (c) The requirements from the F 063-5123-00004, issued on December 13, 1996, Condition D.2.2 that the hazardous air pollutants from the entire source shall be such that the amount of any single hazardous air pollutant (HAP) shall not exceed 0.75 tons per month and the amount of any combination of HAPs shall not exceed 2.00 tons per month, therefore, the requirements of 326 IAC 2-7 do not apply has not been included since Condition D.2.1 limits the HAPs from the storage tanks and Condition D.1.1(c) limits the HAPs from the loading rack. Thus, Condition D.2.2 of F 063-5123-00004 is hereby rescinded.

Compliance Determination Requirements

There are no specific Compliance Determination Requirements applicable to these emission units.

Compliance Monitoring Requirements [326 IAC 2-8-4] [326 IAC 2-8-5(a)(1)]

There are no specific Compliance Monitoring Requirements applicable to these emission units.

Record Keeping and Reporting Requirement [326 IAC 2-8-4(3)] [326 IAC 2-8-16]

D.2.2 Record Keeping Requirements

To document compliance with Conditions D.2.1, the Permittee shall maintain records for each tank of the following:

- (a) The amount of each fuel stored and the Material Safety Data Sheets (MSDSs) for each fuel.
- (b) The weight of VOCs, each individual HAP and total HAPs emitted for each compliance period.

D.2.3 Record Keeping Requirements [326 IAC 8-4-3]

Pursuant to 326 IAC 8-4-3 (Petroleum Liquid Storage Facilities), for the four (4) internal floating roof, petroleum products storage tanks, identified as Tanks #3 through #6, the Permittee shall maintain records of the types of volatile petroleum liquid stored, the maximum true vapor pressure of the liquid as stored, and the results of the inspections performed on the storage vessels. Such records shall be maintained for a period of two (2) years and shall be made to the commissioner upon written request.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY**

**FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)
CERTIFICATION**

Source Name: Equilon Enterprises, LLC d/b/a Shell Oil Products US
Source Address: 10470 East Country Road 300 North, Clermont, Indiana, 46234
Mailing Address: P.O. Box 2099, Houston, TX 77252-2099
FESOP No.: F 063-14875-00004

This certification shall be included when submitting monitoring, testing reports/results or other documents as required by this permit.

Please check what document is being certified:

- 9 Annual Compliance Certification Letter
- 9 Test Result (specify) _____
- 9 Report (specify) _____
- 9 Notification (specify) _____
- 9 Affidavit (specify) _____
- 9 Other (specify) _____

I certify that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

Signature:

Printed Name:

Title/Position:

Phone:

Date:

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE BRANCH
100 North Senate Avenue
P.O. Box 6015
Indianapolis, Indiana 46206-6015
Phone: 317-233-5674
Fax: 317-233-5967**

**FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)
EMERGENCY OCCURRENCE REPORT**

Source Name: Equilon Enterprises, LLC d/b/a Shell Oil Products US
Source Address: 10470 East Country Road 300 North, Clermont, Indiana, 46234
Mailing Address: P.O. Box 2099, Houston, TX 77252-2099
FESOP No.: F 063-14875-00004

This form consists of 2 pages

Page 1 of 2

9 This is an emergency as defined in 326 IAC 2-7-1(12)
CThe Permittee must notify the Office of Air Quality (OAQ), within four (4) business hours (1-800-451-6027 or 317-233-5674, ask for Compliance Section); and
CThe Permittee must submit notice in writing or by facsimile within two (2) days (Facsimile Number: 317-233-5967), and follow the other requirements of 326 IAC 2-7-16

If any of the following are not applicable, mark N/A

Facility/Equipment/Operation:

Control Equipment:

Permit Condition or Operation Limitation in Permit:

Description of the Emergency:

Describe the cause of the Emergency:

If any of the following are not applicable, mark N/A

Page 2 of 2

Date/Time Emergency started:
Date/Time Emergency was corrected:
Was the facility being properly operated at the time of the emergency? Y N Describe:
Type of Pollutants Emitted: TSP, PM-10, SO ₂ , VOC, NO _x , CO, Pb, other:
Estimated amount of pollutant(s) emitted during emergency:
Describe the steps taken to mitigate the problem:
Describe the corrective actions/response steps taken:
Describe the measures taken to minimize emissions:
If applicable, describe the reasons why continued operation of the facilities are necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw materials of substantial economic value:

Form Completed by: _____

Title / Position: _____

Date: _____

Phone: _____

A certification is not required for this report.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION**

FESOP Quarterly Report

Source Name: Equilon Enterprises, LLC d/b/a Shell Oil Products US
Source Address: 10470 East Country Road 300 North, Clermont, Indiana, 46234
Mailing Address: P.O. Box 2099, Houston, TX 77252-2099
FESOP No.: F 063-14875-00004
Facility: One (1) loading rack
Parameter: Petroleum products and denatured ethanol throughput
Limit: 709,813,559 gallons of petroleum products and/or denatured ethanol per twelve (12) consecutive month period, total, equivalent to HAPs emissions of less than ten (10) tons per year for any single HAP and less than twenty-five (25) tons per year for the combination of HAPs, and less than one-hundred (100) tons per year of VOC.

YEAR: _____

Month	Petroleum products and/or denatured ethanol (gallons)	Petroleum products and/or denatured ethanol (gallons)	Petroleum products and/or denatured ethanol (gallons)
	This Month	Previous 11 Months	12 Month Total

9 No deviation occurred in this quarter.

9 Deviation/s occurred in this quarter.
Deviation has been reported on: _____

Submitted by: _____

Title / Position: _____

Signature: _____

Date: _____

Phone: _____

Attach a signed certification to complete this report.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION**

**FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)
QUARTERLY DEVIATION AND COMPLIANCE MONITORING REPORT**

Source Name: Equilon Enterprises, LLC d/b/a Shell Oil Products US
Source Address: 10470 East Country Road 300 North, Clermont, Indiana, 46234
Mailing Address: P.O. Box 2099, Houston, TX 77252-2099
FESOP No.: F 063-14875-00004

Months: _____ to _____ Year: _____

Page 1 of 2

This report shall be submitted quarterly based on a calendar year. Any deviation from the requirements, the date(s) of each deviation, the probable cause of the deviation, and the response steps taken must be reported. Deviations that are required to be reported by an applicable requirement shall be reported according to the schedule stated in the applicable requirement and do not need to be included in this report. Additional pages may be attached if necessary. If no deviations occurred, please specify in the box marked "No deviations occurred this reporting period".

9 NO DEVIATIONS OCCURRED THIS REPORTING PERIOD.

9 THE FOLLOWING DEVIATIONS OCCURRED THIS REPORTING PERIOD

Permit Requirement (specify permit condition #)

Date of Deviation:

Duration of Deviation:

Number of Deviations:

Probable Cause of Deviation:

Response Steps Taken:

Permit Requirement (specify permit condition #)

Date of Deviation:

Duration of Deviation:

Number of Deviations:

Probable Cause of Deviation:

Response Steps Taken:

Permit Requirement (specify permit condition #)	
Date of Deviation:	Duration of Deviation:
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	
Permit Requirement (specify permit condition #)	
Date of Deviation:	Duration of Deviation:
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	
Permit Requirement (specify permit condition #)	
Date of Deviation:	Duration of Deviation:
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	

9 No deviation occurred in this quarter.

9 Deviation/s occurred in this quarter.
Deviation has been reported on: _____

Form Completed By: _____

Title/Position: _____

Date: _____

Phone: _____

Attach a signed certification to complete this report.

Indiana Department of Environmental Management
Office of Air Quality

Technical Support Document (TSD)
for a Federally Enforceable State Operating Permit (FESOP) Renewal

Source Background and Description

Source Name:	Equilon Enterprises, LLC d/b/a Shell Oil Products US
Source Location:	10470 East Country Road 300 North, Clermont Indiana 46234
County:	Hendricks
SIC Code:	5171
Operation Permit No.:	F 063-14875-00004
Permit Reviewer:	Michael S. Schaffer

The Office of Air Quality (OAQ) has reviewed a FESOP renewal application from Equilon Enterprises, LLC d/b/a Shell Oil Products US relating to the operation of a bulk gasoline terminal. Equilon Enterprises, LLC d/b/a Shell Oil Products US was issued FESOP 063-5123-00004, on December 13, 1996. The FESOP expired on December 13, 2001.

Permitted Emission Units and Pollution Control Equipment

The source consists of the following permitted emission units and pollution control devices:

- (a) One (1) truck loading rack constructed in 1963, known as #12, equipped with a flare vapor combustion unit (VCU), installed in 1993, and a vapor collection system, capacity: 99,000 gallons of petroleum products and/or denatured ethanol per hour.
- (b) Two (2) fixed roof cone, petroleum products (excluding gasoline) storage tanks, constructed in 1962, known as Tanks # 1 and #2, capacity: 1,260,000 gallons (30,000 barrels) each.
- (c) Two (2) internal floating roof, petroleum products storage tanks, constructed in 1962, known as Tanks # 3 and #4, capacity: 1,260,000 gallons (30,000 barrels) each.
- (d) Two (2) internal floating roof, petroleum products storage tanks, known as Tank #5, constructed in 1969, and Tank #6, constructed in 1971, capacity: 3,360,000 gallons (80,000 barrels) each.
- (e) One (1) fixed roof cone, petroleum products (excluding gasoline) / denatured ethanol storage tank, known as Tank #7, constructed in 1963, capacity: 42,000 gallons (1,000 barrels).
- (f) Three (3) fixed roof cone, petroleum products (excluding gasoline) storage tanks, known as Tanks #8 through #10, constructed in 1991, capacity: 30,000 gallons (714 barrels), each.
- (g) One (1) fixed roof cone, petroleum products (excluding gasoline) storage tank, known as Tank #11, constructed in 1991, capacity: 10,000 gallons (238 barrels).

Insignificant Activities

The source also includes the following insignificant activities:

- (a) The following VOC and HAP storage containers: Vessels storing lubricating oil, hydraulic oils, machining oils, and machining fluids.
- (b) Application of oils, greases lubricants or other nonvolatile materials applied as temporary protective coatings.

Existing Approvals

- (a) FESOP 063-5123-00004, issued on December 13, 1996;
- (b) First Administrative Amendment 063-8949-00004, issued on October 13, 1997;
- (c) Second Administrative Amendment 063-11682-00004, issued on March 8, 2000;
- (d) Third Administrative Amendment 063-12398-00004, issued on August 7, 2000; and
- (e) First Significant Revision 063-12277-00004, issued on September 18, 2000.

All conditions from previous approvals were incorporated into this FESOP except the following:

- (a) FESOP 063-5123-00004, issued on December 13, 1996;

Conditions D.1.2 and D.2.2 that the hazardous air pollutants from the entire source shall be limited as follows:

- (1) The amount of any single hazardous air pollutant (HAP) shall not exceed 0.75 tons per month.
- (2) The amount of any combination of HAPs shall not exceed 2.00 tons per month

Therefore, the requirements of 326 IAC 2-7 do not apply

Reason not incorporated: The HAPs are now limited to less than ten (10) tons per twelve (12) consecutive month period for an individual HAP and less than twenty-five (25) tons per twelve (12) consecutive month period for the combination of HAPs. The limited throughput in Conditions D.1.1 and D.2.1(c) limit the single and combination of HAPs.

- (b) First Significant Revision 063-12277-00004, issued on September 18, 2000.

Conditions D.1.1 and D.2.1(c) that the total throughput of gasoline and diesel oil through the loading racks shall not exceed 860,240,000 gallons per 12-month rolling period.

Reason not incorporated: The throughput limit required revision so that the entire source is limited to less than one hundred (100) tons of VOC per year. Therefore, the throughput limits have been revised as follows:

The total throughput of petroleum products and/or denatured ethanol at the one (1) loading rack, known as #12, shall be limited to 709,813,559 gallons per twelve (12) consecutive month period. VOC emissions from petroleum products and denatured ethanol shall not

exceed 0.236 pounds per thousand (1,000) gallons of throughput at the loading rack. This throughput limit is equivalent to a VOC emission rate of 83.8 tons per year from the loading rack and limits the entire source potential to emit VOC to less than one hundred (100) tons per year. This throughput also limits the potential to emit of each individual HAP to 1.88 tons per year, total HAPs to 3.45 tons per year from the loading rack and less than ten (10) tons per year for each individual HAP and twenty-five (25) tons per year of the combination of HAPs from the entire source. Therefore, the requirements of 326 IAC 2-7 still do not apply to the loading rack and the storage tanks.

- (c) FESOP 063-5123-00004, issued on December 13, 1996;

Condition D.2.1(c) that pursuant to the New Source Performance Standards (326 IAC 12) (40 CFR 60.500 through 60.506, Subpart XX), emissions from the vapor collection system are limited to no more than 35 milligrams of total organic compounds per liter of gasoline loaded. This limit also satisfies the 80 milligrams per liter of VOC to the atmosphere limit of 326 IAC 8-4-4, Bulk Gasoline Terminal.

Reason not incorporated: The one (1) loading rack, known as #12, was constructed before December 17, 1980. The addition of the flare vapor combustion unit (VCU), installed in 1993 is the addition of a control device, which does not constitute a modification. Therefore 40 CFR 60 Subpart XX is not applicable to this source. However, the requirements of 326 IAC 8-4-4, Bulk Gasoline Terminal still apply to this source and the VOC emissions to the atmosphere are limited to 80 milligrams per liter.

Enforcement Issue

- (a) IDEM is aware that the source did not apply for a FESOP Renewal in a timely manner.
- (b) IDEM is reviewing this matter and will take appropriate action. This proposed permit is intended to satisfy the requirements of the operation permit rules.

Recommendation

The staff recommends to the Commissioner that the FESOP Renewal be approved. This recommendation is based on the following facts and conditions:

Unless otherwise stated, information used in this review was derived from the application and additional information submitted by the applicant.

An administratively complete FESOP Renewal application for the purposes of this review was received on August 30, 2001. Additional information was received on March 4 and 6, 2002.

Emission Calculations

See pages 1 and 3 of 3 of Appendix A of this document for detailed emissions calculations.

Unrestricted Potential Emissions

This table reflects the unrestricted potential emissions of the source, excluding the emission limits that were contained in the previous FESOP.

Pollutant	Unrestricted Potential Emissions (tons/year)
PM	--
PM ₁₀	--
SO ₂	--
VOC	greater than 250
CO	--
NO _x	--

Note: For the purpose of determining Title V applicability for particulates, PM₁₀, not PM, is the regulated pollutant in consideration.

HAPs	Unrestricted Potential Emissions (tons/year)
2,2,4 Trimethylpentane	greater than 10
Benzene	less than 10
Cumene	less than 10
Ethyl benzene	less than 10
n-Hexane	greater than 10
MTBE	greater than 10
Napthalene	less than 10
Toluene	less than 10
Xylene	less than 10
TOTAL	greater than 25

- (a) The potential to emit (as defined in 326 IAC 2-1.1-1(16)) of VOC is equal to or greater than one hundred (100) tons per year. Therefore, the source is subject to the provisions of 326 IAC 2-7.
- (b) The potential to emit (as defined in 326 IAC 2-1.1-1(16)) of any single HAP is equal to or greater than ten (10) tons per year and the potential to emit (as defined in 326 IAC 2-1.1-1(16)) of a combination HAPs is greater than or equal to twenty-five (25) tons per year. Therefore, the source is subject to the provisions of 326 IAC 2-7.
- (c) Fugitive Emissions
This type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-2. However, the fugitive emissions are counted toward determination of PSD and Emission Offset applicability because the loading rack throughput limit is based on the fugitive emissions in addition to the potential to emit of VOC from the storage tanks.

Potential to Emit After Issuance

The source, issued a FESOP on December 13, 1996 has opted to remain a FESOP source, rather than apply for a Part 70 Operating Permit. The table below summarizes the potential to emit, reflecting all limits, of the emission units. Any control equipment is considered enforceable only after issuance of the Federally Enforceable State Operating Permit and only to the extent that the effect of the control equipment is made practically enforceable in the permit.

	Potential to Emit After Issuance (tons/year)						
Process/emission unit	PM	PM ₁₀	SO ₂	VOC	CO	NO _x	HAPs
Loading Rack #12	–	–	–	83.8	–	–	1.88 individual, 3.45 total
Tanks # 1 - 11	–	–	–	13.4	–	–	0.282 individual, 0.595 total
Flanges #14, Pumps #15, Valves #16, and Others #17	–	–	–	1.74	–	–	Negligible
Insignificant Activities	–	–	–	Less than 1	–	–	Negligible
Total PTE After Issuance	–	–	–	Less than 100	–	–	Single less than 10 Total less than 25

Potential emissions after issuance at this source are based on a limited throughput of 709,813,559 gallons per twelve (12) consecutive month period and a VOC emission factor limit of 0.236 pounds per thousand (1000) gallons through the loading rack, known as #12, after control by the flare vapor combustion unit (VCU) and the vapor collection system.

County Attainment Status

The source is located in Hendricks County

Pollutant	Status
PM ₁₀	Attainment
SO ₂	Attainment
NO ₂	Attainment
Ozone	Attainment
CO	Attainment
Lead	Attainment

- (a) Volatile organic compounds (VOC) are precursors for the formation of ozone. Therefore, VOC emissions are considered when evaluating the rule applicability relating to the ozone standards. Hendricks County has been designated as attainment or unclassifiable for ozone.
- (b) Hendricks County has been classified as attainment, maintenance attainment or unclassifiable for all remaining criteria pollutants. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2 and 40 CFR 52.21.

Federal Rule Applicability

- (a) This source is not subject to the requirements of the New Source Performance Standard, 326 IAC 12, (40 CFR Part 60, Subpart K), because Tanks #1 through #11 were all constructed before June 11, 1973, or after May 19, 1978.
- (b) This source is not subject to the requirements of the New Source Performance Standard, 326 IAC 12, (40 CFR Part 60, Subpart Ka), because Tanks #1 through #11 were all constructed before May 18, 1978, or after June 23, 1984.
- (c) Tanks #1 through #7 were all constructed before July 23, 1984. Therefore, Tanks #1 through #7 are not subject to the New Source Performance Standard, 326 IAC 12 (40 CFR Part 60, Subpart Kb).
- (d) Tanks #8 through #10, all constructed after July 23, 1984, and each having a design a storage capacity of greater than seventy-five (75) cubic meters and less than one hundred fifty-one (151) cubic meters are not subject to the New Source Performance Standard, 326 IAC 12, (40 CFR Part 60.110b, Subpart Kb) because, pursuant to 40 CFR 60.110b(d)(4), Subpart Kb does not apply to vessels with a design capacity less than or equal to 1,589.874 cubic meters used for petroleum or condensate stored, processed, or treated prior to custody transfer.
- (e) Tank #11 is not subject to the New Source Performance Standard, 326 IAC 12, (40 CFR Part 60, Subpart Kb), because the tank, constructed after July 23, 1984, has a capacity less than 40 cubic meters.
- (f) The one (1) loading rack, known as #12, constructed in 1963, is not subject to the New Source Performance Standard, 326 IAC 12, (40 CFR Part 60.500 through 60.506, Subpart XX) because this rack was constructed before the rule applicability date of December 17, 1980. The addition of the flare vapor combustion unit (VCU), installed in 1993, is the addition of a control device, which does not constitute a modification.
- (g) The equipment at this source does not contain or contact a fluid that is at least ten percent (10%) benzene by weight. Therefore, pursuant to 40 CFR 61.111, this source is not in benzene service and is not subject to the requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAPs), 40 CFR Part 61, Subpart J.
- (h) This source is not subject to the requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAPs), 40 CFR Part 61, Subpart V, because this source is not considered to be in volatile hazardous air pollutant (VHAP) service, as defined by 40 CFR 61.241.

- (i) This source is not subject to the requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAPs), 40 CFR Part 63, Subpart H, because the source is not subject to any subpart in 40 CFR 63 which references 40 CFR 63, Subpart H.
- (j) This source is not subject to the requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAPs), 40 CFR Part 63, Subpart R, because this source is not a major source of HAPs. Equilon Enterprises, LLC d/b/a Shell Oil Products US, has agreed to limit the throughput of petroleum products and/or denatured ethanol at the loading rack to 709,813,559 gallons per twelve (12) consecutive month period, equivalent to HAPs emissions below the major source levels of ten (10) tons per year for any given individual HAP and twenty-five (25) tons per year for the combination of all HAPs.
- (k) This source is not subject to the requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAPs), 40 CFR Part 63, Subpart OO, because this source is not subject to any subpart of 40 CFR 60, 61 or 63 which references Part 60, Subpart OO.

State Rule Applicability - Entire Source

326 IAC 2-2 (PSD Requirements)

- (a) The one (1) loading rack, known as #12, and Tanks # 1 through 7, were all constructed prior to August 7, 1977. Therefore, a PSD permit pursuant 326 IAC 2-2, was not required for this major source.
- (b) The potential to emit VOC from Tanks # 8 through 11, constructed in 1991, is less than forty (40) tons per year. Therefore, that modification was a minor modification to an existing major source and the requirements of 326 IAC 2-2 were not applicable.
- (c) This source is a minor PSD source because pursuant to 326 IAC 2-8-4 (FESOP), the potential to emit VOC shall be limited to less than one hundred (100) tons per year for the entire source.

326 IAC 2-4.1-1 (New source toxics control)

This source was constructed before July 27, 1997. Therefore, the requirements of 326 IAC 2-4.1-1 do not apply.

326 IAC 2-6 (Emission Reporting)

This source is located in Hendricks County and the potential to emit VOC is less than one hundred (100) tons per year. Therefore 326 IAC 2-6, does not apply.

326 IAC 2-8-4 (FESOP)

Pursuant to this rule, the amount of VOC, shall be limited to less than one hundred (100) tons per year. In addition, the amount of a single HAP shall be limited to less than ten (10) tons per year and the combination of all HAPs shall be limited to less than twenty-five (25) tons per year. Therefore, the requirements of 326 IAC 2-7, do not apply. The following limitation shall apply to the loading rack, known as #12 and Tanks #1 through #11:

The total throughput of petroleum products and/or denatured ethanol at the one (1) loading rack, known as #12, shall be limited to 709,813,559 gallons per twelve (12) consecutive month period. VOC emissions from petroleum products and denatured ethanol shall not exceed 0.236 pounds per

thousand (1,000) gallons of throughput at the loading rack. This throughput limit is equivalent to a VOC emission rate of 83.8 tons per year from the loading rack. This throughput limit in combination with 13.8 tons per year potential VOC emissions from the storage tank and the 1.74 tons per year potential VOC emissions from fugitive emissions, limits the potential to emit VOC from entire source to less than one hundred (100) tons per year. This throughput also limits the potential to emit of each individual HAP to 1.88 tons per year, total HAPs to 3.45 tons per year from the loading rack and less than ten (10) tons per year for each individual HAP and twenty-five (25) tons per year of the combination of HAPs from the entire source. The flare vapor combustion unit (VCU) and the vapor collection system shall be in operation at all times in order to comply with this limitation.

326 IAC 5-1 (Opacity Limitations)

Pursuant to 326 IAC 5-1-2 (Opacity limitations), except as provided in 326 IAC 5-1-3 (Temporary alternative opacity limitations), opacity shall meet the following, unless otherwise stated in this permit:

- (a) Opacity shall not exceed an average of forty percent (40%) any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
- (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR Part 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

State Rule Applicability - Individual Facilities

326 IAC 8-4-3 Petroleum liquid storage facilities

- (a) Tanks #1, #2 and #7 are not subject to the requirements of 326 IAC 8-4-3 because the tanks only store petroleum products with true vapor pressures less than 10.5 kPa (1.52 psi).
- (b) Tanks #3 through #6 are subject to the requirements of 326 IAC 8-4-3 because each tank has a capacity greater than 39,000 gallons and has a true vapor pressure greater than 10.5 kPa (1.52 psi). Tanks #3 through #6 are all internal floating roof tanks. The following is required for Tanks #3 through #6:

The Permittee shall maintain records of the types of volatile petroleum liquid stored, the maximum true vapor pressure of the liquid as stored, and the results of the inspections performed on the storage vessels. Such records shall be maintained for a period of two (2) years and shall be made available to the commissioner upon written request.

- (c) Tanks #8 through #11 are not subject to the requirements of 326 IAC 8-4-3 because each of the tanks has a capacity less than 39,000 gallons.

326 IAC 8-4-4 (Bulk Gasoline Terminals)

This source is subject to the requirements of 326 IAC 8-4-4 because the source is a bulk gasoline terminal. Pursuant to 326 IAC 8-4-4, the source must comply with the following requirements:

- (a) No owner or operator of a bulk gasoline terminal shall permit the loading of gasoline into any transport, excluding railroad tank cars, or barges, unless:
 - (1) The bulk gasoline terminal is equipped with a vapor control system, in good work-

ing order, in operation and consisting of one of the following:

- (A) An adsorber or condensation system which processes and recovers vapors and gases from the equipment being controlled, releasing no more than 80 milligrams per liter of VOC to the atmosphere.
 - (B) A vapor collection system which directs all vapors to a fuel gas system or incinerator.
 - (C) An approved control system, demonstrated to have control efficiency equivalent to or greater than clause (A) above.
- (2) Displaced vapors and gases are vented only to the vapor control system.
 - (3) A means is provided to prevent liquid drainage from the loading device when it is not in use or to accomplish complete drainage before the loading device is disconnected.
 - (4) All loading and vapor lines are equipped with fittings which make vapor-tight connections and which will be closed upon disconnection.
- (b) If employees of the owner of the bulk gasoline terminal are not present during loading, it shall be the responsibility of the owner of the transport to make certain the vapor control system is attached to the transport. The owner of the terminal shall take all reasonable steps to insure that owners of transports loading at the terminal during unsupervised times comply with this section.

The source will comply with this rule by operating the flare and the vapor control system for the one (1) loading rack, known as #12, at all times when the loading rack is in operation. The flare and vapor control system limit VOC emissions to the atmosphere to no more than 80 milligrams per liter.

326 IAC 8-4-5 (Petroleum Sources; Bulk Gasoline Plants)

This source is not a bulk gasoline plant as defined by 326 IAC 1-2-7. Therefore, this source is not subject to the requirements of 326 IAC 8-4-5, Petroleum Sources; Bulk Gasoline Plants.

326 IAC 8-4-7 (Petroleum Sources; Gasoline Transports)

The source is subject to 326 IAC 8-4-7, because it is a bulk gasoline terminal. The requirements of this rule are as follows:

- (a) No owner or operator of a gasoline transport shall cause, allow, or permit the transfer of gasoline between transports and storage tanks that are equipped with a vapor balance system or vapor recovery system unless:
 - (1) the vapor balance system or vapor recovery system is connected and operating according to manufacturers' specifications;
 - (2) gasoline transport compartment hatches are closed at all times during loading operations;
 - (3) except as provided in 326 IAC 8-4-9(i), there are no visible leaks, or otherwise detectable leaks (measured at twenty-one thousand (21,000) parts per million as

propane as specified in 40 CFR 63.425(f)(1)*), in the gasoline transport's pressure/vacuum relief valves, hatch cover, trailer compartments, storage tanks, or associated vapor and liquid lines during loading or unloading; and

- (4) the pressure relief valves on gasoline transports are set to release at no less than four and eight-tenths (4.8) kilo Pascals (seven-tenths (0.7) pounds per square inch).
- (b) Tank wagons are exempt from vapor balance requirements.
- (c) When employees of the owner of a bulk gasoline terminal are present to supervise or perform loading, the owner of the terminal shall be responsible for compliance with subsection (a)(1) through (a)(3). The owner of the terminal shall also ensure that owners of gasoline transports loading at the terminal during unsupervised times comply with this section.
- (d) Gasoline transports must be designed, maintained, and operated so as to be vapor-tight.
- (e) Transfer of gasoline between a gasoline transport and a storage tank that is not equipped with a vapor balance system or vapor recovery system is not subject to this section.

326 IAC 8-4-9 (Petroleum Sources; Leaks from Transports and Vapor Collection Systems; Records)

The vapor balance and vapor control system is subject to the requirements of 326 IAC 8-4-9 because the source is subject to 326 IAC 8-4-4 and the gasoline transports at this source are subject to 326 IAC 8-4-7. The requirements are as follows:

- (a) No person shall allow a gasoline transport that is subject to this rule and that has a capacity of two thousand (2,000) gallons or more to be filled or emptied unless the gasoline transport completes the following:
 - (1) Annual leak detection testing before the end of the twelfth calendar month following the previous year's test, according to test procedures contained in 40 CFR 63.425 (e), as follows:
 - (A) Conduct the pressure and vacuum tests for the transport's cargo tank using a time period of five (5) minutes. The initial pressure for the pressure test shall be four hundred sixty (460) millimeters H₂O (eighteen (18) inches H₂O) gauge. The initial vacuum for the vacuum test shall be one hundred fifty (150) millimeters H₂O (six (6) inches H₂O) gauge. The maximum allowable pressure or vacuum change is twenty-five (25) millimeters H₂O (one (1) inch H₂O) in five (5) minutes.
 - (B) Conduct the pressure test of the cargo tank's internal vapor valve as follows:
 - (i) After completing the test under (A), use the procedures in 40 CFR 60, Appendix A, Method 27 to repressurize the tank to four hundred sixty (460) millimeters H₂O (eighteen (18) inches H₂O) gauge. Close the transport's internal vapor valve or valves, thereby isolating the vapor return line and manifold from the tank.
 - (ii) Relieve the pressure in the vapor return line to atmospheric pres-

sure, then reseal the line. After five (5) minutes, record the gauge pressure in the vapor return line and manifold. The maximum allowable five (5) minute pressure increase is one hundred thirty (130) millimeters H₂O (five (5) inches H₂O).

- (2) Repairs by the gasoline transport owner or operator, if the transport does not meet the criteria of subdivision (1), and retesting to prove compliance with the criteria of subdivision (1).
- (b) The annual test data remain valid until the end of the twelfth calendar month following the test. The owner of the gasoline transport shall be responsible for compliance with subsection (b) and shall provide the owner of the loading facility with the most recent valid modified 40 CFR 60, Appendix A, Method 27 test results upon request. The owner of the loading facility shall take all reasonable steps, including reviewing the test date and tester's signature, to ensure that gasoline transports loading at its facility comply with subsection (b).
- (c) The Permittee shall:
 - (1) design and operate the applicable system and the gasoline loading equipment in a manner that prevents:
 - (A) gauge pressure from exceeding four thousand five hundred (4,500) pascals (eighteen (18) inches of H₂O) and a vacuum from exceeding one thousand five hundred (1,500) pascals (six (6) inches of H₂O) in the gasoline transport;
 - (B) a reading equal to or greater than twenty-one thousand (21,000) parts per million as propane, from all points on the perimeter of a potential leak source when measured by the method referenced in 40 CFR 60, Appendix A, Method 21, or an equivalent procedure approved by the commissioner during loading or unloading operations at gasoline dispensing facilities, bulk plants, and bulk terminals; and
 - (C) avoidable visible liquid leaks during loading or unloading operations at gasoline dispensing facilities, bulk plants, and bulk terminals; and
 - (2) within fifteen (15) days, repair and retest a vapor balance, collection, or control system that exceeds the limits in subdivision (1).
- (e) The department may, at any time, monitor a gasoline transport, vapor balance, or vapor control system to confirm continuing compliance with subsection (a).
- (f) The Permittee shall maintain records of all certification testing. The records shall identify the following:
 - (1) The vapor balance, vapor collection, or vapor control system.
 - (2) The date of the test and, if applicable, retest.
 - (3) The results of the test and, if applicable, retest.

The records shall be maintained in a legible, readily available condition for at least two (2) years after the date the testing and, if applicable, retesting were completed.

- (g) The owner or operator of a gasoline transport subject to this section shall keep a legible copy of the transport's most recent valid annual modified 40 CFR 60, Appendix A, Method 27 test either in the cab of the transport or affixed to the transport trailer. The test record shall identify the following:
 - (1) The gasoline transport.
 - (2) The type and date of the test and, if applicable, date of retest.
 - (3) The test methods, test data, and results certified as true, accurate, and in compliance with this rule by the person who performs the test.

This copy shall be made available immediately upon request to the department and to the owner of the loading facility for inspection and review. The department shall be allowed to make copies of the test results.

- (h) If the commissioner allows alternative test procedures such method shall be submitted to the U.S. EPA as a SIP revision.
- (i) During compliance tests conducted under 326 IAC 3-6 (stack testing), each vapor balance or control system shall be tested applying the standards described in subsection (d)(1)(B). Testers shall use 40 CFR 60, Appendix A, Method 21 to determine if there are any leaks from the hatches and the flanges of the gasoline transports. If any leak is detected, the transport cannot be used for the capacity of the compliance test of the bulk gas terminal. The threshold for leaks shall be ten thousand (10,000) parts per million methane.

326 IAC 8-9 (Volatile Organic Liquid Storage Vessels)

This source located in Hendricks County is not subject to 326 IAC 8-9 because the source is not located in Clark, Floyd, Lake or Porter County.

326 IAC 14-7 (Emission Standards for Equipment Leaks (Fugitive Emission Sources) of Benzene)

The source is not subject to 326 IAC 14-7 because the amount of benzene emitted is less than ten percent (10%) of the total HAPs and therefore, not classified as a benzene service defined in 40 CFR 60, Subpart J.

326 IAC 14-8 (Emission Standard for Equipment Leaks (Fugitive Emission Sources))

The source is not subject to 326 IAC 14-8 because the amount of VHAP in petroleum products are less than ten percent (10%) of the total molecular weight of a liquid or a gas that passes through a flare, valve, or range and therefore, is not classified as a VHAP service defined in 40 CFR 60, Subpart V.

Testing Requirements

The following testing requirements apply to the one (1) loading rack, known as #12:

- (a) To demonstrate compliance with 326 IAC 2-8-4, a compliance stack test shall be performed between May 7, 2002 and November 7, 2002 which corresponds to five (5) years since the latest valid stack test plus one hundred and eighty (180) days, at the flare vapor combustion unit (VCU) with the vapor control system. This test shall be performed according to 40 CFR 60, Appendix A, Methods 25 and 25A.

- (b) To demonstrate compliance with 326 IAC 8-4-9, the Permittee shall perform testing required in 326 IAC 8-4-9.
- (c) If the commissioner allows alternative test procedures in (c)(1)(B) of 326 IAC 8-4-9, such method shall be submitted to the U.S. EPA as a SIP revision.
- (d) During compliance tests conducted under 326 IAC 3-6 (stack testing), each vapor balance or control system shall be tested applying the standards described in (c)(1)(B) of 326 IAC 8-4-9. Testers shall use 40 CFR 60, Appendix A, Method 21 to determine if there are any leaks from the hatches and the flanges of the gasoline transports. If any leak is detected, the transport cannot be used for the capacity of the compliance test of the bulk gas terminal. The threshold for leaks shall be ten thousand (10,000) parts per million methane.

Compliance Requirements

Permits issued under 326 IAC 2-8 are required to ensure that sources can demonstrate compliance with applicable state and federal rules on a more or less continuous basis. All state and federal rules contain compliance provisions, however, these provisions do not always fulfill the requirement for a more or less continuous demonstration. When this occurs IDEM, OAQ, in conjunction with the source, must develop specific conditions to satisfy 326 IAC 2-8-4. As a result, compliance requirements are divided into two sections: Compliance Determination Requirements and Compliance Monitoring Requirements.

Compliance Determination Requirements in Section D of the permit are those conditions that are found more or less directly within state and federal rules and the violation of which serves as grounds for enforcement action. If these conditions are not sufficient to demonstrate continuous compliance, they will be supplemented with Compliance Monitoring Requirements, also Section D of the permit. Unlike Compliance Determination Requirements, failure to meet Compliance Monitoring conditions would serve as a trigger for corrective actions and not grounds for enforcement action. However, a violation in relation to a compliance monitoring condition will arise through a source's failure to take the appropriate corrective actions within a specific time period.

All compliance requirements from previous approvals were incorporated into this FESOP. The compliance monitoring requirements applicable to this source are as follows:

The flare has applicable compliance monitoring conditions as specified below:

- (a) Once per shift checks of the key operating parameters, including flame presence, temperatures at flare inlet, outlet and combustion zone, and exit gas velocity.
- (b) Quarterly reports shall be submitted to OAQ. These reports shall include the petroleum products and denatured ethanol throughput to the truck loading rack.

These monitoring conditions are necessary because the flare must operate properly to ensure compliance with 326 IAC 2-8 (FESOP).

Conclusion

The operation of this bulk gasoline terminal shall be subject to the conditions of the attached proposed FESOP No.: F 063-14875-00004.

**Appendix A: Emissions Calculations
VOC and HAP Emissions
From Storage Tanks**

Company Name: Equilon Enterprises, LLC d/b/a Shell Oil Products US
Address City IN Zip: 10470 East Country Road 300 North, Clermont, Indiana 46234
FESOP: 063-14875
Pit ID: 063-00004
Reviewer: Michael S. Schaffer
Date: August 30, 2001

Capacity

Tank#	capacity (gallons)	capacity (barrels)
Tank #1	1260000	30000
Tank #2	1260000	30000
Tank #3	1260000	30000
Tank #4	1260000	30000
Tank #5	3360000	80000
Tank #6	3360000	80000
Tank #7	42000	1000
Tank #8	30000	714
Tank #9	30000	714
Tank #10	30000	714
Tank #11	10000	238
Total:	11902000	283381

VOC Emissions

Tank#	Potential to Emit VOC (lbs/year)	Potential to Emit VOC (tons/year)
Tank #1	436	0.218
Tank #2	327	0.164
Tank #3	4037	2.02
Tank #4	4029	2.01
Tank #5	8268	4.13
Tank #6	8297	4.15
Tank #7	1285	0.643
Tank #8	23.7	0.012
Tank #9	23.8	0.012
Tank #10	23.4	0.012
Tank #11	1.57	0.001
Total:	26751	13.4

Note: Worst case product stored in Tanks #1 -3, 8-11 is diesel, Tanks # 3 - 6 is Gasoline RVP13, and Tank #7 is denatured ethanol

State Potential Emissions

METHODOLOGY FOR TANKS: Tanks 4.0

METHODOLOGY FOR LOADING RACK: See page 2

Gasoline HAP Emissions

HAP	Worst Case Weight % in gasoline vapor	Potential to Emit VOC from Gasoline (tanks only) (lbs/yr)	HAP Emissions from Gasoline (lbs/yr)	Worst Case HAP Emissions (tanks only) (tons/yr)
2,2,4- Trimethylpent.	0.676%	24631	166	0.083
Benzene	0.337%	24631	83.1	0.042
Cumene	0.002%	24631	0.443	0.0002
Ethyl benzene	0.032%	24631	7.86	0.004
n-Hexane	0.596%	24631	147	0.073
MTBE	2.240%	24631	552	0.276
Napthalene	0.0002%	24631	0.049	0.00002
Toluene	0.007%	24631	1.77	0.001
Xylene	0.222%	24631	54.6	0.027
Subtotal HAPs:				0.506

Diesel HAP Emissions

HAP	Worst Case Weight % in diesel vapor	Potential to Emit VOC from diesel (tanks only) (lbs/yr)	HAP Emissions from diesel (lbs/yr)	Worst Case HAP Emissions (tanks only) (tons/yr)
2,2,4- Trimethylpent.	0.000%	835	0.000	0.000
Benzene	0.140%	835	1.17	0.001
Cumene	0.080%	835	0.668	0.0003
Ethyl benzene	0.170%	835	1.42	0.001
n-Hexane	0.030%	835	0.251	0.0001
MTBE	0.000%	835	0.000	0.000
Napthalene	0.030%	835	0.251	0.0001
Toluene	1.520%	835	12.7	0.006
Xylene	1.000%	835	8.35	0.004
Subtotal HAPs:				0.012
Total HAPs from Tanks (tons /yr):				0.595

Denatured Ethanol HAP Emissions

HAP	Worst Case Weight % in denatured ethanol vapor	Potential to Emit VOC from denatured ethanol (tanks only) (lbs/yr)	HAP Emissions from denatured ethanol (lbs/yr)	Worst Case HAP Emissions (tanks only) (tons/yr)
2,2,4- Trimethylpent	0.000%	1285	0.00	0.000
Benzene	0.999%	1285	12.8	0.006
Cumene	0.000%	1285	0.00	0.000
Ethyl benzene	0.900%	1285	11.6	0.006
n-Hexane	0.999%	1285	12.8	0.006
MTBE	0.000%	1285	0.00	0.000
Napthalene	0.999%	1285	12.8	0.006
Toluene	3.999%	1285	51.4	0.026
Xylene	3.999%	1285	51.4	0.026
Subtotal HAPs:				0.076

**Appendix A: Emission Calculations
VOC and HAP Emissions
Piping Fugitives and Loading Rack**

Page 2 of 3 TSD App A

Company Name: Equilon Enterprises, LLC d/b/a Shell Oil Products US
Plant Location: 10470 East Country Road 300, Clermont, Indiana
FESOP: 063-14875
Pit ID: 063-00004
Permit Reviewer: Michael S. Schaffer
Date: August 30, 2001

Loading Rack #12 with Flare

Fugitive Source	Gasoline Emission Factor (lbs/1000gal)	Unlimited Annual Throughput (gallons)	VOC Emissions (lbs/yr)	VOC Emissions (tons/yr)		Maximum Uncontrolled VOC Emissions (tons/yr)	Overall reduction Efficiency	Maximum Controlled VOC Emissions (tons/yr)
Loading Rack	6.15	867240000	5333526	2667		2667	96.16%	102

Fugitive Source	Gasoline Emission Factor (lbs/1000gal)	Limited Annual Throughput (gallons)	VOC Emissions (lbs/yr)	VOC Emissions (tons/yr)		Limited Uncontrolled VOC Emissions (tons/yr)	Overall reduction Efficiency	Limited Controlled VOC Emissions (tons/yr)
Loading Rack	6.15	709813559	4365353	2183		2183	96.16%	83.8

Methodology: Emission Factor is based on the equation $L = 12.46 \text{ SPM} / T$ from (AP42 page 5.2-4)
L>Loading Loss, S = a saturation factor which is based on a dedicated normal service from a submerged fillpipe, P=True Vapor Pressure, T = Temperature of Bulk liquid loaded
"Worst Case" gasoline is based on Gasoline RVP 13 @ 60 degrees F (AP-42 table 7.1-2)
Overall Reduction Efficiency = eff = capture efficiency percentage x vapor collection system control efficiency

Potential HAP Emissions After Limitation

HAP	Worst Case Weight % in gasoline vapor	Gasoline VOC Emissions after limitation (lbs/yr)	HAP Emissions from Gasoline (lbs/yr)	Total Limited HAP Emissions (tons/yr) Before Controls	Overall Reduction Efficiency	Total Limited HAP Emissions (tons/yr) After Controls
2,2,4- Trimethylpent.	0.676%	4365353	29505	14.8	96.16%	0.567
Benzene	0.337%	4365353	14724	7.36	96.16%	0.283
Cumene	0.002%	4365353	78.6	0.039	96.16%	0.002
Ethyl benzene	0.032%	4365353	1393	0.696	96.16%	0.027
n-Hexane	0.596%	4365353	26031	13.0	96.16%	0.500
MTBE	2.240%	4365353	97784	48.9	96.16%	1.88
Napthalene	0.0002%	4365353	8.73	0.004	96.16%	0.0002
Toluene	0.007%	4365353	314	0.16	96.16%	0.006
Xylene	0.222%	4365353	9669	4.83	96.16%	0.186
Total Haps:			179508	89.8		3.45

Flanges #14, Pumps #15, Valves, #16, and Others#17 Potential to Emit

Fugitive Source	Emission Factor (lbs/hr)	Number Leaking	Fugitive Emissions (lbs/hr)	Fugitive Emissions (tons/yr)
Valves	0.0002	190	0.038	0.166
Flanges	0.0035	86	0.301	1.32
Pump Seals	0.0021	13	0.028	0.122
Other	0.0005	60	0.030	0.131
Total VOC:			0.397	1.74

Appendix A: Emission Calculations

Company Name: Equilon Enterprises, LLC d/b/a Shell Oil Products US
 Plant Location: 10470 East Country Road 300, Clermont, Indiana
 FESOP: 063-14875
 Plt ID: 063-00004
 Permit Reviewer: Michael S. Schaffer
 Date: August 30, 2001

Limited and Control Emissions Summary

VOC Emissions

Tank#	Potential to Emit VOC (lbs/year)	Potential to Emit VOC (tons/year)	VOC Control Efficiency	Potential to Emit VOC after control (lbs/year)	Potential to Emit VOC after control (tons/year)
Tank #1	436	0.218	0.00%	436	0.218
Tank #2	327	0.164	0.00%	327	0.164
Tank #3	4037	2.02	0.00%	4037	2.02
Tank #4	4029	2.01	0.00%	4029	2.01
Tank #5	8268	4.13	0.00%	8268	4.13
Tank #6	8297	4.15	0.00%	8297	4.15
Tank #7	1285	0.643	0.00%	1285	0.643
Tank #8	23.7	0.012	0.00%	23.7	0.012
Tank #9	23.8	0.012	0.00%	23.8	0.012
Tank #10	23.4	0.012	0.00%	23.4	0.012
Tank #11	1.57	0.001	0.00%	1.57	0.001
Loading Rack #12	4365353	2183	96.16%	167630	83.8
Flanges #14	332	0.166	0.00%	332	0.166
Pumps #15	246	0.123	0.00%	246	0.123
Valves #16	2640	1.32	0.00%	2640	1.32
Others #17	262	0.131	0.00%	262	0.131
Total:	4395584	2198		197861	98.9

Gasoline HAP Emissions

HAP	Tank HAP Emissions from Gasoline (lbs/yr)	Worst Case HAP Emissions (tanks only) (tons/yr)	Loading Rack HAP Emissions from Gasoline (lbs/yr)	Loading Rack HAP Emissions (tons/yr) Before Control	Loading Rack HAP Emissions (tons/yr) After Control	Entire Source gasoline HAP Emissions (tons/yr) After Control
2,2,4- Trimethylpent.	166	0.083	29505	14.8	0.567	0.650
Benzene	83.1	0.042	14724	7.36	0.283	0.325
Cumene	0.443	0.0002	78.6	0.039	0.002	0.002
Ethyl benzene	7.86	0.004	1393	0.697	0.027	0.031
n-Hexane	147	0.074	26031	13.0	0.500	0.574
MTBE	552	0.276	97784	48.9	1.88	2.16
Napthalene	0.049	0.00002	8.73	0.004	0.0002	0.000
Toluene	1.77	0.001	314	0.157	0.006	0.007
Xylene	54.6	0.03	9669	4.83	0.186	0.213
Total HAPs:		0.506		89.8	3.45	3.96

Denatured Ethanol and Diesel HAP Emissions

HAP	HAP Emissions from denatured ethanol (lbs/yr)	Worst Case HAP Emissions (tons/yr)	HAP Emissions from diesel (lbs/yr)	Worst Case HAP Emissions (tons/yr)	Entire Source denatured ethanol and diesel HAP Emissions (tons/yr)
2,2,4- Trimethylpent.	0.00	0.000	0.000	0.000	0.000
Benzene	12.8	0.006	1.17	0.001	0.007
Cumene	0.00	0.000	0.668	0.0003	0.000
Ethyl benzene	11.6	0.006	1.42	0.001	0.007
n-Hexane	12.8	0.006	0.251	0.0001	0.007
MTBE	0.00	0.000	0.00	0.000	0.000
Napthalene	12.8	0.006	0.251	0.0001	0.007
Toluene	51.4	0.026	12.7	0.006	0.032
Xylene	51.4	0.026	8.35	0.004	0.030
Total HAPs:		0.076	Total HAPs:	0.012	0.089

Entire Source HAP Emissions (tons/yr) After Control
0.650
0.332
0.003
0.037
0.580
2.16
0.007
0.039
0.243
4.05